

MALAYSIAN STANDARD

MS 1462-3-2:2021

Metal scaffolding – Part 3: Prefabricated scaffoldings – Section 2: Particular methods of structural design for steel and aluminium modular system scaffoldings (First revision)

ICS: 91.220

Descriptors: scaffolds, facades, scaffolding components, prefabricated parts, construction equipment, structural design, mathematical calculations, structural systems, loading, verification, mechanical testing

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Committee representation

The National Standards Committee on Building, Construction and Civil Engineering (NSC D) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia Construction Industry Development Board Malaysia Department of Irrigation and Drainage Malaysia Department of Standards Malaysia (Secretariat) Federation of Malaysian Manufacturers Jabatan Bomba dan Penyelamat Malaysia Jabatan Kerajaan Tempatan Jabatan Kerja Raya Malaysian Iron and Steel Industry Federation Malaysian Timber Industry Board Master Builders Association Malaysia Pertubuhan Akitek Malaysia Pertubuhan Perancang Malaysia Projek Lebuhraya Usahasama Berhad Real Estate and Housing Developers' Association Malaysia Suruhanjaya Perkhidmatan Air Negara The Cement and Concrete Association of Malaysia The Institution of Engineers, Malaysia Universiti Putra Malaysia Universiti Sains Malaysia Universiti Teknologi Malaysia

The Technical Committee on Steel Products (TC/D/4) which supervised this Malaysian Standard consists of representatives from the following organisations:

Construction Industry Development Board Malaysia Department of Occupational Safety and Health Malaysia Department of Standards Malaysia (Secretariat) Malaysian Iron and Steel Industry Federation Malaysia Steel Association Malaysian Structural Steel Association Master Builders Association Malaysia SIRIM QAS International Sdn Bhd The Institution of Engineers, Malaysia Universiti Malaya Universiti Teknologi Malaysia Universiti Teknologi MARA

The Working Group on Tubular and Prefabricated Scaffolding (WG/D/4-3) which developed this Malaysian Standard consists of representatives from the following organisations:

Aerial Global Sdn. Bhd Construction Industry Development Board Malaysia Construction Research Institute of Malaysia Department of Occupational Safety and Health Malaysia Department of Standards Malaysia (Secretariat) Jabatan Kerja Raya Malaysia Leform Sdn Bhd SIRIM QAS International Sdn Bhd Southern Pipe Industry (M) Sdn Bhd SUMI-Tech Industrial Supplies Sdn Bhd Universiti Teknologi MARA

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National foreword

The adoption of the EN Standard as a Malaysian Standard was recommended by the Working Group on Tubular and Prefabricated Scaffolding under the authority of the National Standards Committee on Building, Construction and Civil Engineering.

This Malaysian Standard is identical with EN 12810-2:2003, *Façade scaffolds made of prefabricated components - Part 2: Particular methods of structural design,* published by the European Committee for Standardization (CEN) with the exceptions as listed below.

MALAYSIAN STANDARD EXCEPTIONS

- a) in the source text, "this European Standard" should read "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any), to read as a point;
- c) drop tests for platforms and their supports as stated in Annex B is compulsory;
- d) incorporation of National Annex A on "Commentary on MS 1462-3-2";
- e) Figure 7, clause 4.4.2 and Figure 8 and 9, clause 4.4.3 are replaced as below:

Clause	EN 12810-2	MS 1462-3-2	Notes
4.4.2	Figure 7	Figure NA.1	Minimum height measured
4.4.3	Figure 8	Figure NA.2	from load cell to support shall
4.4.3	Figure 9	Figure NA.3	be 5 m

- f) Annex A is not applicable in Malaysia;
- g) requirement of vibration test National Annex NA15 and methodology of test;
- h) reference to European Standards should be replaced by corresponding Malaysian Standards as follows:

Referenced European Standards	Corresponding Malaysian Standards	
EN 12810-1, Façade scaffolds made of prefabricated components - Part 1: Product specifications	MS 1462-3-1, Metal Scaffolding - Part 3: Prefabricated scaffolds - Section 1: Specification for steel and aluminium modular system scaffolding	
EN 12811-1, Temporary works equipment - Part 1: Scaffolds - Performance requirements and general design	MS 1462-4-1, Metal Scaffolding - Part 4: Temporary Works Equipment - Section 1: Performance Requirements and General Design	
EN 12811-2, Temporary works equipment - Part 2: Information on materials	MS 1462-4-2, Metal Scaffolding - Part 4: Temporary Works Equipment - Section 2: Information of Materials*	

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National foreword (continued)

EN 12811-3, Temporary works equipment - Part 3: Load Testing

MS 1462-4-3, Metal Scaffolding - Part 4: Tem porary Works Equipment - Section 3: Load Testing*

This Malaysian Standard consists of the following parts, under the general title *Metal Scaffolding:*

- Part 1: Prefabricated scaffolds specification for steel frame scaffolding
- Part 2: Tubular (tube and coupler) scaffolds Section 1: Specification for steel tubes
- Part 2: Tubular (tube and coupler) scaffolds Section 2: Specification for aluminium tubes
- Part 2: Tubular (tube and coupler) scaffolds Section 3: Specification for steel and aluminium couplers, fitting and accessories
- Part 3: Prefabricated scaffolds Section 1: Specification for steel and aluminium modular system scaffolding
- Part 3: Prefabricated scaffolds Section 2: Particular methods of structural design for steel and aluminium modular system scaffolding
- Part 4: Temporary works equipment Section 1: Performance requirements and general design*
- Part 4: Temporary works equipment Section 2: Information of materials*
- Part 4: Temporary works equipment Section 3: Load testing*
- Part 5: Mobile access and working tower made of prefabricated elements Materials, dimensions, design loads, safety and performance requirements*
- Part 6: Temporarily installed suspended scaffolds and access equipment

This Malaysian Standard cancels and replaces MS 1462-3-2:2012, Metal scaffolding - Part 3: Prefabricated scaffoldings - Section 2: Particular methods of structural design for steel and aluminium modular system scaffoldings.

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^{*}Under deliberation.

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